WHAT IS CLAIMED IS:

1. A compressor comprising:

a driveshaft;

a compressor bull-gear attached to said driveshaft, wherein said bull-gear is rotationally fixed relative to said driveshaft;

a power supply coupled to one end of said driveshaft, wherein said power supply provides torque to rotate said driveshaft in a first direction; and

means to prevent the rotation of said driveshaft in a second direction by actively positively engaging said driveshaft in a locked position when said power supply does not provide torque to rotate said driveshaft in said first direction and actively disengaging said driveshaft in an unlocked position as long as said power supply provides torque to rotate the shaft in said first direction~~, wherein said means is electrically coupled to said power supply~~.

2. The compressor of claim 1 further comprising an impellor coupled to said compressor bull-gear, wherein said impellor rotates when said compressor bull-gear rotates.

~~3. The compressor of claim 2, wherein said impellor compresses a fluid when said driveshaft is rotating in said first direction.~~